

SPP-NTC-200316

**iSPP
Notification to Construct**

February 18, 2015

Mr. Jeff Tullis
Grand River Dam Authority
P.O. Box 1128
Pryor, OK 74119

RE: Notification to Construct Approved Reliability Network Upgrades

Dear Mr. Tullis,

Pursuant to Section 3.3 of the Southwest Power Pool, Inc. ("SPP") Membership Agreement and Attachments O and Y of the SPP Open Access Transmission Tariff ("OATT"), SPP provides this Notification to Construct ("NTC") directing Grand River Dam Authority ("GRDA"), as the Designated Transmission Owner, to construct the Network Upgrade(s).

On January 27, 2015, the SPP Board of Directors approved the Network Upgrade(s) listed below to be constructed as part of the 2015 Integrated Transmission Planning ("ITP") Near-Term Assessment.

New Network Upgrades

Project ID: 30848

Project Name: Sub - Claremore 161 kV Terminal Upgrades

Need Date for Project: 6/1/2018

Estimated Cost for Project: \$86,400

Network Upgrade ID: 51146

Network Upgrade Name: Claremore 161 kV Terminal Upgrades

Network Upgrade Description: Replace CT at Claremore to increase the rating of the 161 kV line from Claremore to GRDA 1.

Network Upgrade Owner: GRDA

MOPC Representative(s): Tim Brown

TWG Representative: Joe Fultz

Categorization: Regional reliability

Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 261 MVA.

Network Upgrade Justification: To address low voltage at Pyramid Corners 69 kV

SPP-NTC-200316

substation in the base case.

Estimated Cost for Network Upgrade (current day dollars): \$86,400

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: SPP

Date of Estimated Cost: 12/1/2014

Project ID: 30892

Project Name: Sub - CPPXF#22 69 kV Terminal Upgrades

Need Date for Project: 6/1/2015

Estimated Cost for Project: \$134,800

Network Upgrade ID: 51212

Network Upgrade Name: CPPXF#22 69 kV Terminal Upgrades

Network Upgrade Description: Upgrade breaker and relay(s) at CPPXF#22 69 kV substation.

Network Upgrade Owner: GRDA

MOPC Representative(s): Tim Brown

TWG Representative: Joe Fultz

Categorization: Regional reliability

Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 123 MVA.

Network Upgrade Justification: To address the overload of CPPXF#22 - Wilgro 69 kV Ckt 1 for the loss of GRDA1 - Maid Tap 69 kV Ckt 1, GRDA1 161/69 kV Ckt 1 transformer, and Hunt - Maid Tap 69 kV Ckt 1.

Estimated Cost for Network Upgrade (current day dollars): \$134,800

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: SPP

Date of Estimated Cost: 12/1/2014

Project ID: 30896

Project Name: Device - Boomer 69 kV Cap Bank

Need Date for Project: 6/1/2015

Estimated Cost for Project: \$647,712

Network Upgrade ID: 51216

Network Upgrade Name: Boomer 69 kV Cap Bank

Network Upgrade Description: Install one (1) 14.4-MVAR capacitor bank at Boomer 69 kV substation.

Network Upgrade Owner: GRDA

MOPC Representative(s): Tim Brown

TWG Representative: Joe Fultz

Categorization: Regional reliability

SPP-NTC-200316

Network Upgrade Specification: Install 14.4 MVAR of capacitance at Boomer 69 kV substation.

Network Upgrade Justification: To address low voltages at Stillwater 69 kV substations, including Central, Perkins Tap, Boomer, Hospital, Admiral and Kinzie, for the loss of Kinzie - Stillwater Kinzie 138 kV Ckt Z1 and in the base case.

Estimated Cost for Network Upgrade (current day dollars): \$647,712

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: SPP

Date of Estimated Cost: 12/1/2014

Project ID: 30901

Project Name: Device - Newport 69 kV Cap Bank

Need Date for Project: 6/1/2015

Estimated Cost for Project: \$539,760

Network Upgrade ID: 51221

Network Upgrade Name: Newport 69 kV Cap Bank

Network Upgrade Description: Install one (1) 12-MVAR capacitor bank at Newport 69 kV substation.

Network Upgrade Owner: GRDA

MOPC Representative(s): Tim Brown

TWG Representative: Joe Fultz

Categorization: Regional reliability

Network Upgrade Specification: Install 12 MVAR of capacitance at Newport 69 kV substation.

Network Upgrade Justification: To address low voltages at Monkey Island 69 kV and Newport 69 kV substations in the base case.

Estimated Cost for Network Upgrade (current day dollars): \$539,760

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: SPP

Date of Estimated Cost: 12/1/2014

Project ID: 30904

Project Name: Device - Childers 69 kV Cap Bank

Need Date for Project: 6/1/2018

Estimated Cost for Project: \$172,049

Network Upgrade ID: 51224

Network Upgrade Name: Childers 69 kV Cap Bank

Network Upgrade Description: Install one (1) 3.6-MVAR capacitor bank at Childers 69 kV substation.

Network Upgrade Owner: GRDA

SPP-NTC-200316

MOPC Representative(s): Tim Brown
TWG Representative: Joe Fultz
Categorization: Regional reliability
Network Upgrade Specification: Install 3.6 MVAR of capacitance at Childers 69 kV substation.
Network Upgrade Justification: To address low voltage at Pyramid Corners 69 kV for the loss of Claremore - Sequoyah 69 kV Ckt 1.
Estimated Cost for Network Upgrade (current day dollars): \$172,049
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: SPP
Date of Estimated Cost: 12/1/2014

Project ID: 30909
Project Name: Sub - Collinsville - Skiatook 69 kV Terminal Upgrades
Need Date for Project: 6/1/2017
Estimated Cost for Project: \$86,469

Network Upgrade ID: 51230
Network Upgrade Name: Collinsville - Skiatook 69 kV Terminal Upgrades
Network Upgrade Description: Replace CTs and relays at both Collinsville and Skiatook substations to increase the rating of the 69 kV line from Collinsville to Skiatook.
Network Upgrade Owner: GRDA
MOPC Representative(s): Tim Brown
TWG Representative: Joe Fultz
Categorization: Regional reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 44 MVA.
Network Upgrade Justification: To address the overload of Collinsville - Skiatook Tap 69 kV Ckt 1 for the loss of Cleveland XFMR - Cleveland 69 kV Ckt 1.
Estimated Cost for Network Upgrade (current day dollars): \$86,469
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: SPP
Date of Estimated Cost: 12/1/2014

Withdrawal of Upgrades

Previous NTC Number: 20028
Previous NTC Issue Date: 1/27/2009
Project ID: 30071
Project Name: Device - Sallisaw 69 kV Capacitor

SPP-NTC-200316

Network Upgrade ID: 50077

Network Upgrade Name: Sallisaw 69 kV Cap Bank

Network Upgrade Description: Add 7.2-MVAR capacitor at Sallisaw 69 kV.

Reason for Change: The 2015 ITPNT Assessment determined the Network Upgrade is no longer required.

Withdrawal of Network Upgrade

GRDA has been made aware of all Network Upgrades withdrawn through the SPP planning process. This letter is the formal notification to stop any further work on this Network Upgrade(s), collect any cost associated with the Network Upgrade(s), and provide this information to SPP.

Commitment to Construct

Please provide to SPP a written commitment to construct the Network Upgrade(s) within 90 days of the date of this NTC, in addition to providing a construction schedule and an updated $\pm 20\%$ cost estimate, NTC Project Estimate, in the Standardized Cost Estimate Reporting Template for the Network Upgrade(s). Failure to provide a sufficient written commitment to construct as required by the SPP OATT could result in the Network Upgrade(s) being assigned to another entity.

Mitigation Plan

The Need Date represents the timing required for the Network Upgrade(s) to address the identified need. Your prompt attention is required for formulation and approval of any necessary mitigation plans for the Network Upgrade(s) included in the Network Upgrade(s) if the Need Date is not feasible. Additionally, if it is anticipated that the completion of any Network Upgrade will be delayed past the Need Date, SPP requires a mitigation plan be filed within 60 days of the determination of expected delays.

Notification of Commercial Operation

Please submit a notification of commercial operation for each listed Network Upgrade to SPP as soon as the Network Upgrade is complete and in-service. Please provide SPP with the actual costs of these Network Upgrades as soon as possible after completion of construction. This will facilitate the timely billing by SPP based on actual costs.

Notification of Progress

On an ongoing basis, please keep SPP advised of any inability on GRDA's part to complete the approved Network Upgrade(s). For project tracking, SPP requires GRDA to submit status updates of the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors meetings. However, GRDA shall also advise SPP of any inability to comply with the Project Schedule as soon as the inability becomes apparent.

All terms and conditions of the SPP OATT and the SPP Membership Agreement shall apply to

SPP-NTC-200316

this Project, and nothing in this NTC shall vary such terms and conditions.

Don't hesitate to contact me if you have questions or comments regarding these instructions.
Thank you for the important role that you play in maintaining the reliability of our electric grid.

Sincerely,



Lanny Nickell
Vice President, Engineering
Phone: (501) 614-3232 • Fax: (501) 482-2022 • lnickell@spp.org

cc: Carl Monroe - SPP
Antoine Lucas - SPP
Mike Stafford - GRDA
Joe Fultz - GRDA